

DSN History Collection
1962-1977
2 cubic feet
JPL557

Scope and Content

Records include IOMs and other correspondence, presentations, reports, reviews, schedules, press releases, brochures and handwritten notes. This collection includes Deep Space Network (DSN) support on various projects including Ranger, Helios, Mariner, Pioneer, and Surveyor.

Administrative History

In 1979 Telecommunications and Data Acquisition (TDA) and DSN support was incorporated as group 6483 into Section 648 Documentation, part of Division 64 Technical Documentation and Materiel Services. In 1992, 6483 was renamed The TDA and DSN Documentation Group. In 1994 Division 64 became the Logistics and Technical Information division, and section 648 Documentation changed to 644 the Technical Information Section. In 2001 when Dr. Charles Elachi became the director, the lab was reorganized and 27 became Logistics and Technical Information division, with 274 being the Technical Information Section.

Provenance

The 4 cubic feet of shipment number 11128, named the DSN History collection, was processed and reboxed into the 2 cubic feet of JPL557. This collection was submitted to storage by Richard Chandlee, 6483, TDA and DSN support, on October 8, 1991. Dr. Nicholas A. Renzetti from the Telecommunications and Data Acquisition Science Office was the custodian of this collection. Duplicates and internal document series were removed. See appendix for listing.

Collection Arrangement and Description

Original order was followed.

Conservation/Preservation

Standard preparations of documents for long term storage were completed.

Finding Aids

No other finding aids exist.

FILE FLD LIST

Box 1 of 2

- Fld 1 JPL 754 The first decade of space research : In commemoration of the tenth anniversary of the launch of Explorer 1, February 1, 1968, with letter of congratulations from Dwight D. Eisenhower to Dubridge.
- Fld 2 Los Angeles Times new publishing system
- Fld 3 Summary of the Voyager program, January 1967
- Fld 4 Guide to station library maintenance, 337L6-2B3, February 1971
- Fld 5 Ranger 8 (RA-8 OAR)
- Fld 6 Presentations : Helios project; DSN Telemetry functional design review, June 1971; Agenda for command portion of June review; and GCF functional design for 1973-74 mariner 73, Pioneer F-G and Helios 74
- Fld 7 Preliminary manual for preparation of a support instrumentation requirements document (SIRD), December 1970
- Fld 8 Loose items: includes launch trajectories for Mariner, Pioneer and Helios, as well as a brochure for the Madrid Space station written in Spanish.
- Fld 9 OTDA-TDA (Tracking Data Acquisition) program review, April 1976
- Fld 10 Interoffice memos (IOMs) to/from from M. E. Goble includes Surveyor 5, 6 and 7 lunar night performance data
- Fld 11 Atlas/Cetaur-8 (AC-8) and AC-10 launch information, General Dynamics, Convair Division, press releases

- Fld 12 Addendum to Surveyor mission E space flight operations report, Hughes Aircraft report.
- Fld 13 S/C 7 first lunar night performance data
- Fld 14 Helios project spacecraft telecommunications system presentation at JPL, May 5, 1972
- Fld 15 Surveyor VI flight path analysis and command operations report, Hughes Aircraft, November 30, 1967
- Fld 16 Addendum B to Surveyor mission E space flight operations report, Hughes Aircraft, October 1967
- Fld 17 Surveyor mission E status reports 1 of 2 (1-18)
- Fld 18 Surveyor mission E status reports 2 of 2 (19-24 plus addenda)
- Fld 19 Surveyor SC-7 command assignments
- Fld 20 IOMs Mariner Mars 1969
- Fld 21 Data system configuration block diagrams prepared for MM69 mission operations functional design review, June 1967
- Fld 22 Mariner Mars 1969 software system design book supplement, July 1968
- Fld 23 MM69 document covers
- Fld 24 Mariner Mars 1969 (first) quarterly review, April 1966
- Fld 25 Mariner Mars 1969 (second) quarterly review, September 1966
- Fld 26 Mariner Mars 1969 (third) quarterly review, December 1966
- Fld 27 Mariner Mars 1969 (fourth) quarterly review, March 1967
- Fld 28 Mariner Mars 1969 (fifth) quarterly review, June 1967
- Fld 29 Mariner Mars 1969 (sixth) quarterly review, October 1967
- Fld 30 Mariner Mars 1969 seventh quarterly review, February 1968
- Fld 31 Mariner Mars 1969 eighth quarterly review, May 1968

Box 2 of 2

- Fld 32 Mariner Mars F launch review (IOMs misc)
- Fld 33 Mariner 1969 Reliability of Read Write Verify (RWV) unit (IOMs)
- Fld 34 MM69 TDS Planning working group meeting at Patrick Air Force Base, October 1967
- Fld 35 MM69 memos January to March 1968, includes org chart.
- Fld 36 MM69 memos August to December 1967
- Fld 37 MM69 memos January to July 1969 (includes block drawings, multiple mission telemetry demodulator assembly)
- Fld 38 MM69 memos March to December 1966
- Fld 39 MM69 readiness review, TWXs and memos, February 1969
- Fld 40 Mariner Mars 1960 project project management report no. 37 February 1969
- Fld 41 Manned space flight network operations plan for Mariner Mars 1969 *Permission Document Change No.* 6 February 1969
- Fld 42 MM69 launch support, memos and TWXs, February 1969
- Fld 43 Mariner 1967 project tracking and data systems progress report no. 3, Dec.1, 1966-May 15, 1967 (May 15, 1967)
- Fld 44 Mariner 1967 project tracking and data systems progress report no. 2, (December 1966) and progress report no. 1 (August 66)
- Fld 45 MM69: standard sequence of events (February 1969) and Goddard MSFN systems descriptions. (July 1968)
- Fld 46 SDA quick look report Mariner IV, July 1-Aug 31 1967 (phases 948-1007), Mina Kirby, Nicholas Thomas 337D-67-1047 (Nov 1967)
- Fld 47 Mariner 1967 project third NASA headquarters quarterly review (December 1966)
- Fld 48 Mariner 1967 project NASA headquarters quarterly review (April 1966)
- Fld 49 MM69 mission operations miscellaneous (originally together in an envelope) includes memos, org chart, and test info
- Fld 50 Chronological files December 1968
- Fld 51 Chronological files, November 1968
- Fld 52 Chronological files October 1968
- Fld 53 Chronological files, September 1968, includes MM69 master schedules, memos
- Fld 54 Chronological files, August 1968, includes memos, software schedules
- Fld 55 Chronological files, July 1968, includes memos, meeting minutes, reports, schedules
- Fld 56 Oversize - 1 folder of World maps with the DSN tracking stations marked and transparency overlays.

CATALOG DESCRIPTION

- 099 JPL557
- 110 2 Jet Propulsion Laboratory (U.S.). |b TDA and DSN support group
- 245 00 DSN History Collection, |f 1962-1977
- 300 2.0 |f cubic ft. |a (59 |f folders)
- 351 Loose items maintained in original order.
- 500 General note (optional)
- 506 Must be reviewed and cleared before distribution to non-US persons or external to JPL.
- 520 Records include IOMs and other correspondence, presentations, reports, reviews, schedules, press releases, brochures and handwritten notes. This collection includes Deep Space Network (DSN) support on various projects including Ranger, Helios, Mariner, Pioneer, and Surveyor.
- 545 1 In 1979 TDA and DSN support was incorporated as group 6483 into Section 648 Documentation, part of Division 64 Technical Documentation and Materiel Services. In 1992 6483 was renamed The TDA and DSN Documentation Group. In 1994 Division 64 became the Logistics and Technical Information division, and section 648 Documentation changed to 644 the Technical Information Section. In 2001 when Dr. Charles Elachi became the director, the lab was reorganized and 27 became Logistics and Technical Information division, with 274 being the Technical Information Section.
- 555 0 Finding aid available in the archives; |c folder level control.
- 561 The 4 cubic feet of shipment number 11128, named the DSN History collection, was processed and reboxed into the 2 cubic feet of JPL557. This collection was submitted to storage by Richard Chandlee, 6483, TDA and DSN support, on October 8, 1991. Dr. Nicholas A. Renzetti from the TDA Science Office was the custodian of this collection. Duplicates and internal document series were removed. See appendix for listing.
- 610 20 Jet Propulsion Laboratory (U.S.). |x History.
- 610 20 Jet Propulsion Laboratory (U.S.) |b Deep Space Network
- 650 7 DEEP SPACE NETWORK|2nasat
- 650 7 HELIOS PROJECT|2nasat
- 650 7 MARINER 5 SPACE PROBE|2 nasat
- 650 7 MARINER 6 SPACE PROBE |2 nasat
- 650 7 MARINER 7 SPACE PROBE |2 nasat
- 650 7 MARS 69 PROJECT |2 nasat
- 650 7 PIONEER 10 SPACE PROBE|2 nasat
- 650 7 RANGER 8 LUNAR PROBE|2 nasat
- 650 7 SURVEYOR LUNAR PROBES|2nasat
- 650 7 TRAJECTORIES|2 nasat
- 650 7 VENUS PROBES|2 nasat
- 650 7 VOYAGER PROJECT|2nasat
- 700 1 Goble, M.E.
- 710 2 General Dynamics Corporation. |b Convair Division
- 710 2 Hughes Aircraft Company

Appendix A
Items removed from the collection

JPL internal documents

AC-9 tracking station coverage characteristics and launch hold criteria *PD 106* (October 1966)

Caltech: the presidents report 1971/72

Deep Space Instrumentation Facility (DSIF): Johannesburg *TM 33-223* (1965)

DSIF: Tidbinbilla *TM 33-207* (1965)

DSIF tracking instruction manual Atlas/Centaur-8 (AC-8) *EPD 343* (March 1966)

DSIF tracking instruction manual Atlas/Centaur-9 (AC-9) volume III operational procedures *EPD 417 vol 3* (September 1966)

DSIF tracking instruction manual Lunar Orbiter project volume III operational procedures *EPD 331 vol 3* (July 1967)

DSIF tracking instruction manual Mariner 67 project volume III operational procedures *EPD 480 vol 3, revised* (August 1967)

DSIF tracking instruction manual preflight nominal predictions for Atlas/Centaur-8 (AC-8) mission *EPD 335* (March 1966)

DSIF tracking instruction manual Pioneer B network configuration *EPD 359 vol. 1* July 1966

DSIF tracking operations memorandum, Surveyor Mission C *602-14* (September 1967)

DSIF: Woomera *TM 33-223* (1965)

DSN interface control document Mariner 67 project *EPD 385 Vol. 1 Rev. B* (August 1967)

DSN operations plan for the Mariner 1969 project, DSN system descriptions and special procedures *605-45* (October 1967)

DSN operations plan for the Mariner 1969 project, DSN system descriptions *605-117* (March 1969)

DSN test plan for the Mariner 67 project, *EPD 453* (February 1967)

DSN test plan for the Mariner 67 project, *EPD 453 Rev. 1* (February 1967)

Internal document cumulative index lists, CY 1975 to 31 Dec 1975 *1040-69, Rev D* (January 1976)

Internal document cumulative index lists, CY 1975 to 29 February 1976 *1040-69, Rev E* (January 1976)

Internal document releases cumulative list for CY 1975 *1040-72* (April 1976)

Internal document releases cumulative list for CY 1976 *1040-78* (April 1977)

Internal document releases cumulative list for CY 1977 *1040-81* (January 1978)

JPL/ETR field station launch operations plan Mariner Venus 67 *604-4* (June 1967)

Launch vehicle system requirements and restraints for the Mariner Venus 67 project *EPD 348 Rev. 1* (March 1967)

Mariner: Journey around the sun *TM 33-302* (October 1966)

Mariner Mars 1969 spacecraft countdown *M69 309.05* (February 1969)

Mariner Mars 1969 spacecraft M69-3 flight configuration idiosyncrasies and related data *605-171* (February 1969)

Mariner Mars 1969 project ninth quarterly review, September 17-18, 1968 *605-133* (November 1968)

Mariner Mars 1969 project tenth quarterly review, December 12, 1968 *605-161* (January 1969)

Mariner Mars 1971: Mars orbiter missions *TM 33-449* (September 1969)

Mariner Venus 1967 launch constraints and near Earth mission analysis *PD 101* (January 1967)

Mariner Venus 1967 operation readiness *OD 4340* (April 1967)

Mariner Venus 1967 system test and operations report *STOR MV-67* (October 1967)

Near-Earth phase operations plan for mariner mars 1969 project, Vol. 1 Near-Earth launch operations plan *690-29 vol. I* (February 1969)

Office of Computing and Information Systems OCIS standard OCIS documentation system *1810-1* (February 1973)

Space Flight operations memorandum Surveyor V *602-38* (November 1967)

Space flight operations plan: Mariner Venus 67 and Mariner IV *EPD 347 Rev. 1* (June 1967)

Space flight operations plan Surveyor Mission A *EPD 180 Rev. 4* (July 1965)

Summary of Deep Space Net operations support of Atlas Centaur AC-8 mission *EPD 370* April 1966

Surveyor E mission plan *602-30* (August 1967)

Surveyor G mission plan *602-66* (January 1968)

Surveyor landing site selection *602-20* (May 1967)

Surveyor launch constraints Mission A, May/June 1966 launch opportunity *PD 43 addendum 1* (May 1966)

Surveyor lunar operations plan Mission E *602-1, revision 2 (formerly EPD 486)* (August 1967)

Surveyor mission G operational sequences *EPD 180 S/MG sections VI*, (December 1967)

Surveyor mission G standard sequence of event and nonstandard sequence of events *EPD 180 S/MG sections V and VII*, (1967)

Surveyor mission operations system, space flight operations memorandum, Surveyor III *602-6* (July 1967)

Surveyor mission operations system, space flight operations memorandum, Surveyor IV 602-24 (September 1967)

Surveyor mission operations system, space flight operations memorandum, Surveyor VI 602-67 (January 1968)

To Mars: The odyssey of Mariner IV *TM* 33-229 (January 1965)

Tracking and data system progress report no. 4 Mariner 1969 project 605-152 (December 1968)

Tracking and data systems reports for MVM73 project: TDS progress report no. 2 615-14 (July 1971)

Tracking and data systems reports for MVM73 project: TDS progress report no. 3 615-40 (January 1972)

Tracking and data system test plan for the Mariner 1967 project *EPD* 482 (February 1967)

Tracking and data system test plan for the Mariner 1967 project, Preliminary *EPD* 482 (February 1967)

View periods Surveyor Mission G 602-59 (December 1967)

NASA documents

Apollo 8: Man around the moon *EP* 66 (Washington D.C., U.S. Government Printing Office, 1968)

External documents

The Planet Mars (map) *Pub* 540-L Rev. 3 (Mars North American Aviation Inc. Space and information Systems Division, March 1962)